

Abstract Of The Disclosure

A stator for a power generation system and associated methods are provided. The stator preferably includes a plurality of high voltage stator coils. Each of the plurality of high voltage stator coils preferably includes a plurality of metal strands, a plurality of vent members positioned adjacent the plurality of metal strands, and compact voltage grading means contacting each of the plurality of vent members and the plurality of metal strands for grading voltage between the vent members and the metal strands to thereby prevent an overvoltage condition. The present invention also provides a method of grading voltage between internal vent members and conductive strands of a high voltage coil of a power generation system. The method preferably includes connecting conductive portions of each of a plurality of internal vent members to a plurality of conductive strands of a high voltage coil.